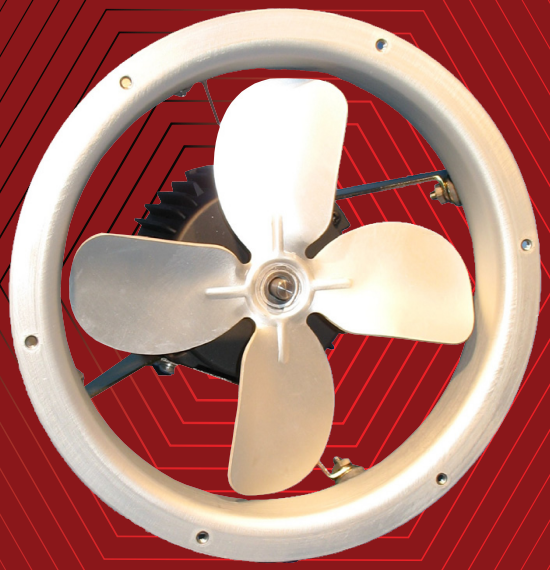
ROTRON / AMETEK®

Rotron MF/ MFV
Propeller Fans



NORTH AMERICA

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General Propeller Information

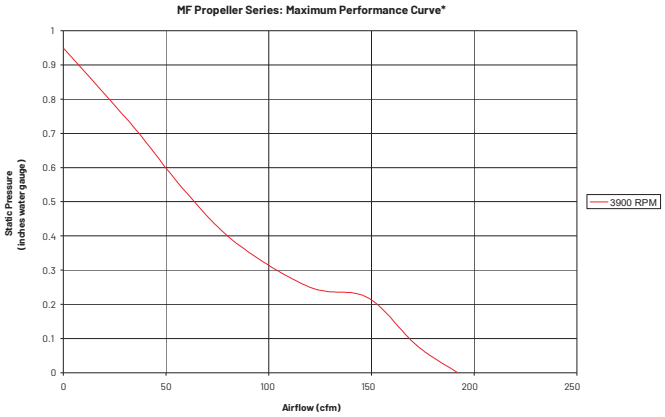
Propeller Fans have sheet metal blades, usually four or more in number, which are curved to provide an aerodynamic lift and are generally arranged without blade overlap (PREMAIRPROP™ blades overlap). These fans operate best at free delivery or at very low static pressures.

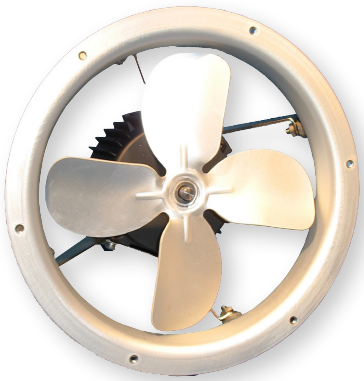
Propeller Fans are suitable for conditions which require movement of a large volume of air against low resistance to flow.

These fans are recommended for flushing cooling air through small enclosures such as radio cabinets, instrument panels, and communications equipment shelters.

They come in a variety of voltages and frequencies and are available with lead wires only. Most units are available with an optional internal Fan Performance Sensor (FPS) or external Low Speed Warning Device (LSWD).

Rotron MF (5.5" propeller)





*Individual Performance Curve Characteristics Available Upon Request

General

- Physical envelope: 7.50" Dia. x 4.875" L 1.
- Weight: approximately 4.3 lbs.
- Specially designed for cooling electronics in radio cabinets, instrument panels, radar systems and shipboard applications.
- MF – standard model, spun venturi.
- MFV – vibration isolator mounts.

Materials and Finishes

- Propellers stamped aluminum with a painted or anodized finish.
- Venturi rings available in spun or cast aluminum with a painted or anodized finish.
- Mounting brackets made of zinc plated steel.
- Stainless steel shaft motors and aluminum frames finished in black enamel.
- "Lubricated-for-Life" ball bearings.

[1]Note: See specific part-number drawing for complete product dimensions

Options/Accessories

- Screen Guard
- LSWD (Low Speed Warning Device)
- FPS (Fan Performance Sensor)

AC Line Powered Units [1]

- 3-phase and 1-phase permanent-split capacitor motor designs.
- Fixed speeds (performance) based on input frequency.
- Max free delivery airflow of 155 CFM at 50 Hz, 196 CFM at 60 Hz, 306 CFM at 400 Hz.
- Ambient temperature range: -54 °C to 125 °C.

[1] Airflow, maximum ambient and acoustic levels will vary depending on design parameters

DC Line Powered Units – E.C.D.C®

- May be constructed for this model fan with similar properties to that of AC line powered units.

Optional DC-AC Inverters and AC-AC Converters for AC Powered Models

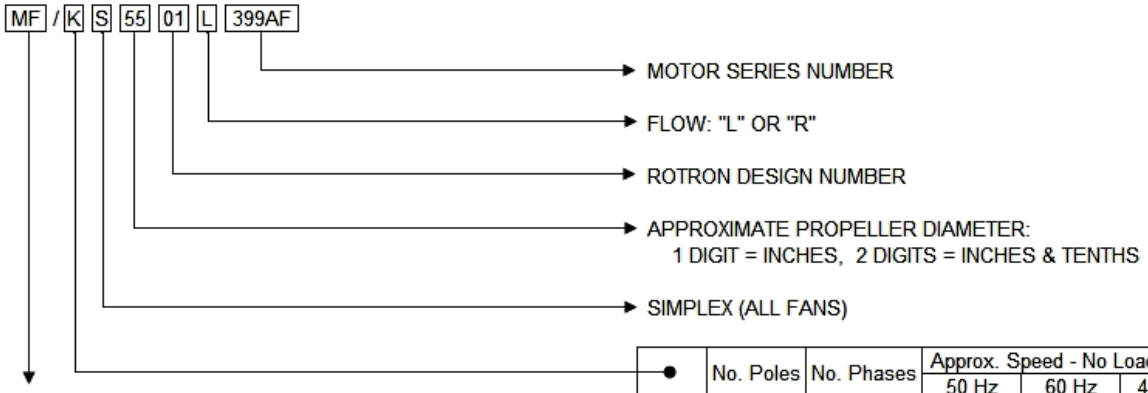
BATAC® Inverter Driven Units

- AC square wave fans driven from a DC power source through a BATAC® Inverter.
- Low cost alternative when multiple fans are used in a single application or area.
- Allows for greater than 100 VDC input voltage.

Unit Description Key

The unit description key is for reference only and should not be confused with an order form. While most units are custom configurations, not all variations of the key shown below are possible.

Please contact the Application Engineering department for more information regarding possible custom configurations.



FAN MODEL:

MF = 5.5" FAN
MFV = 5.5" FAN WITH VIBRATION ISOLATOR
NF = 6.5" FAN
NFV = 6.5" FAN WITH VIBRATION ISOLATOR
NFG = 6.5" FAN (CAST VENTURI, REINFORCED SPIDER)
HF = 8" FAN
HFV = 8" FAN WITH VIBRATION ISOLATOR
HFG = 8" FAN (CAST VENTURI, REINFORCED SPIDER)
JFG = 10" FAN
JFGV = 10" FAN WITH VIBRATION ISOLATOR

●	No. Poles	No. Phases	Approx. Speed - No Load (Ref.)		
			50 Hz	60 Hz	400 Hz
A	2	3	2900	3500	-
B	4	3	1450	1750	-
E	6	1 or 3	950	1150	-
F	8	1 or 3	700	850	-
K	2	1	2900	3500	-
L	4	1	1450	1750	-
M	6	1 or 3	-	-	7500
N	8	1 or 3	-	-	5500
P	12	1 or 3	-	-	3900
Q	4	1 or 3	-	-	11000
R	2	1 or 3	-	-	23000

Note: Dual frequency or dual pole motors designated by using 2 digits. Ex: "KM" = 2 pole 10 50/60 Hz, 6 pole 10 400 Hz

Ordering Information

When ordering, please specify the specific Rotron part number listed on the following model table. Further ordering information, based on the configuration and motor series, may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.

MODEL MF & MFV

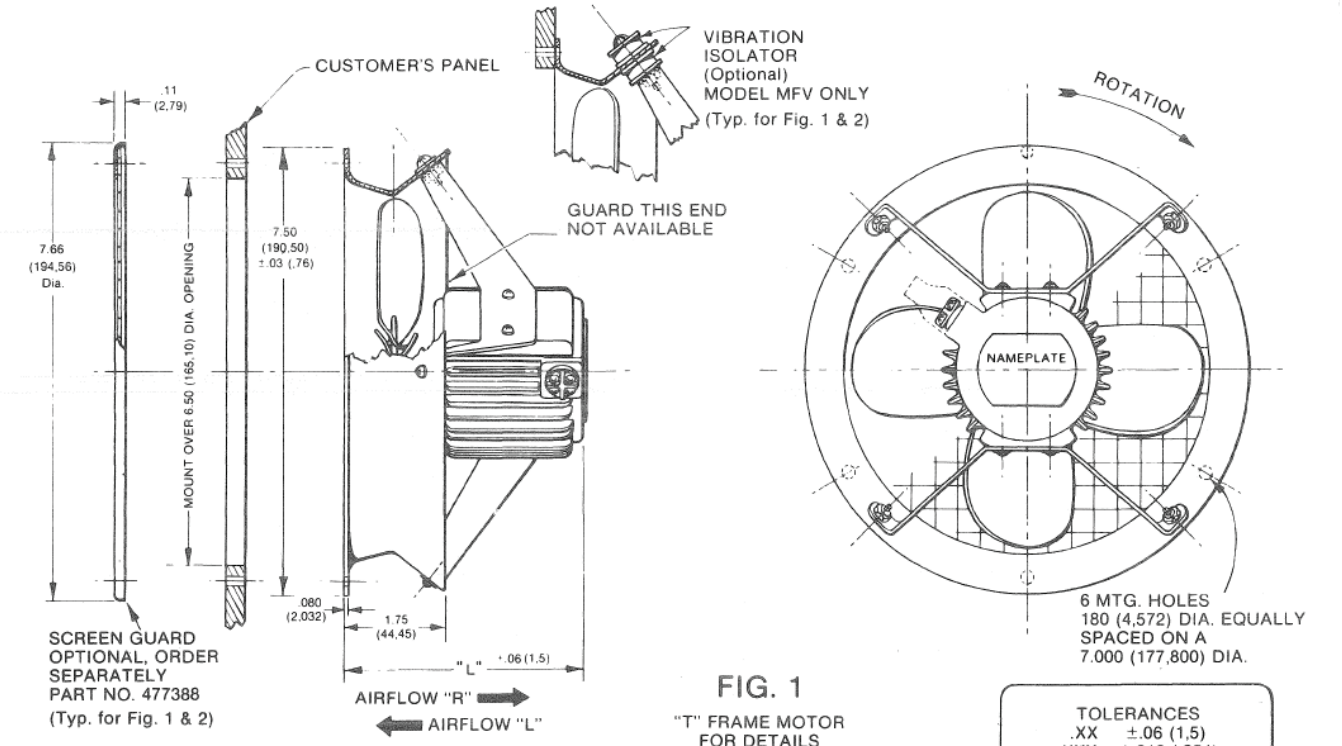


FIG. 1

"T" FRAME MOTOR
FOR DETAILS
SEE MOTOR SECT.

TOLERANCES
.XX ±.06 (1,5)
.XXX ±.010 (.254)
(Unless otherwise specified)

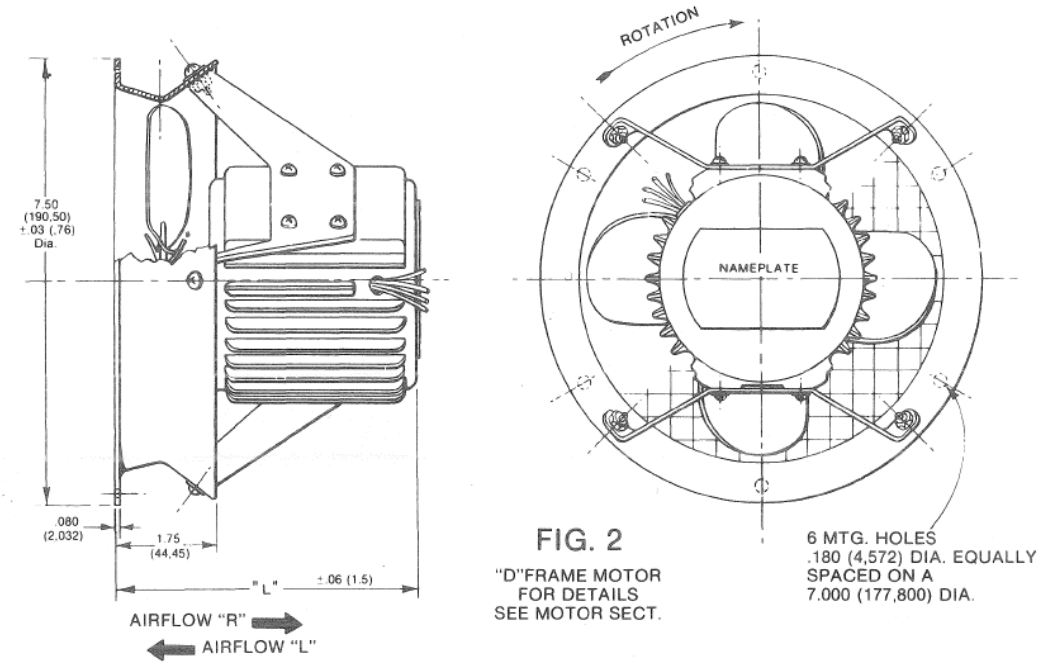


FIG. 2

"D"FRAME MOTOR
FOR DETAILS
SEE MOTOR SECT.

MODEL MF & MFV

ELECTRICAL SPECIFICATIONS

See Hookup Section for Motor Wiring

Type	Frame	Series	Volts	Phase	Hz	Cap. † Mfd.	Nom RPM	Full Load Watts	Full Line Amps	Lock. Rotor Amps	Air CFM Free Del.	Motor Series	Variants Line Voltage
KS-5501	TA-2	110AF	115	1	50 60	1.0** 1.0	2900 3450	23 20	.25 .20	.40 .40	145 170	110CF 110BF	230 115/230
LS-5501	TA-2	441AF	115	1	50 60	2.0 2.0	1450 1750	24 23	.21 .20	.27 .27	75 85		
AS-5501	TA-2	107JF	220 200-230	3	50 60	- -	2930 3470	33 16	.16 .10	.26 .24	150 180	115JF 273JF	115 440
MS-5501	TA-3	440AF	115	1	400	1.0**	6400	65	.55	.65	315		
NS-5501	DA-1	376CF	115	1	400	1.0**	5500	63	.81	1.65	270		
PS-5501	DA-1	134AF	115	1	400	1.0**	3900	55	.77	1.4	190		
MS-5501	TA-3	238WF	200	3	400	-	5500	56	.31	.46	280		
NS-5501	DA-I	135JF	200	3	400	-	5780	50	.32	.91	290	393JF 587JF	416 115
PS-5501	DA-I	505WF	115	3	400	-	3950	68	1.4	5.2	200	363WF 272WF	416 200
Triple Frequency													
KPS-5501	DA-I	646FF	115	1	50 60 400	0.75 0.75 0.75	3500 3700	20 50	.23 .55	.65 1.0	145 180		

MECHANICAL SPECIFICATIONS

Type	Approx. Weight Lbs.(kg)	"L" Inches(mm)	Type	Approx. Weight Lbs.(kg)	"L" Inches(mm)
	Lbs. (Kg.)	Inches (mm)			
KS-5501	1.9 (0.86)	3.625 (92,1)	**MS-5501**	2.9 (1,3)	4.875 (123,8)
LS-5501	19 (0,86)	3.625 (92,1)	**NS-5501**	4.3 (1'.9)	4.875 (123,8)
AS-5501	1.9 (0.86)	3.625 (92,1)	**PS-5501**	4.3 (1,9)	4.875 (123,8)
MS-5501	2.9 (1,3)	4.875 (123.8)	**Triple Frequency**		
NS-5501	4.3 (1,9)	4.875 (123,8)	**KPS-5501**	4.3 (1,09)	4.875 (123,8)
PS-5501 (1,9)	4.3	4.875 (123,8)			

† Running capacitors not normally supplied by Rotron
For 3-phase motors all voltages are phase-to-phase
Capacitor voltage rating are 220 VAC unless otherwise specified
* * Capacitor rated at 330 VAC

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Specifications subject to change without notice